Card 3/5

 $\frac{1+\frac{\pi\zeta}{2}(2-1)}{1-\frac{\pi\zeta}{2}(2-1)} > \left[(z-)^{\frac{1}{2}}\right] + \left[(z)^{\frac{1}{2}}\right] > \left[(z-)^{\frac{1}{2}}\right] + \left[(z)^{\frac{1}{2}}\right] > \left[(z-)^{\frac{1}{2}}\right] > \left[(z-)^{\frac{1}{$

Theorem Nr. S - When depicting the unit direle by functions (1), the value of (x'(z))+((z))+((-2)) satisties

WK(V) min & WK(Ze⁶) & WK(Z) max

Three theorems have been derived. Theorem Nr 1. When depicting the unit circle by functions represented by (1), the curvative fluctuation (1), the curvative fluctuation (1), the segment [-1,1] satisfies the inequalities

SOV/21-59-10-3/26 On Certain Properties of Functions With Limited Boundary Rotation. II.

There are 4 references, 2 of which are Soviet, 1 Ru-manian and 1 Finnish.

Card 4/5

1- 1/2 (2-1) - 21/2 > }]

Theorem Nr. δ - When depicting the unit circle by functions represented by (1), the length of the circumference countour /z/=r satisfies the inequality

On Certain Properties of Functions With Limited Boundary Rotation. II.

Card 5/5

Rebruary 24, 1959

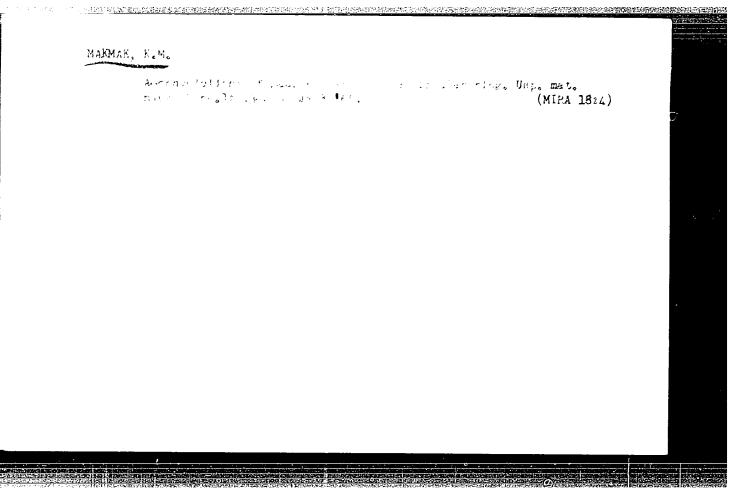
SUBMITTED:

By B.V. Hnyedenko, Member of the AS UkrssR

PRESENTED:

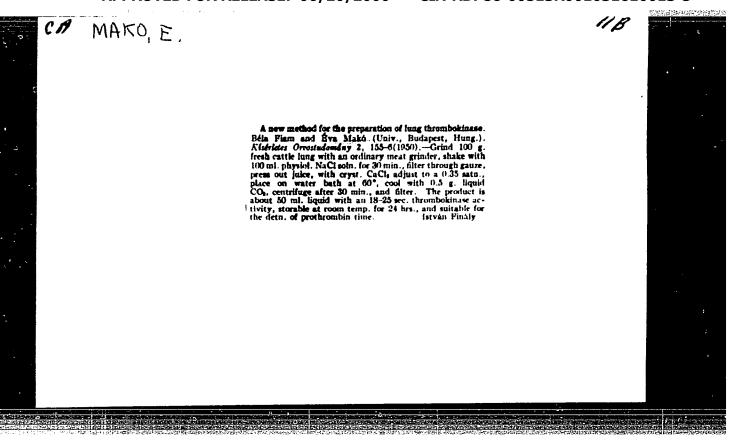
ASSOCIATION: Zaporiz'kyy Mashynobudivnyy Instytut (Zaporozh'ye Maching Institute)

SOV/21-59-10-5/26 On Certain Properties of Functions With Limited Boundary Rotation. II.



BALAKIRSKAYA, R.R.; BATALIK, B.S.; NEL'SON, R.A.; MAKMENKO, V.V.

Investigating the influence of chilling on the phase composition and structure of clinkers. Nauch. trudy PermNIUI no.5:95-102 '63. (MIRA 18:3)



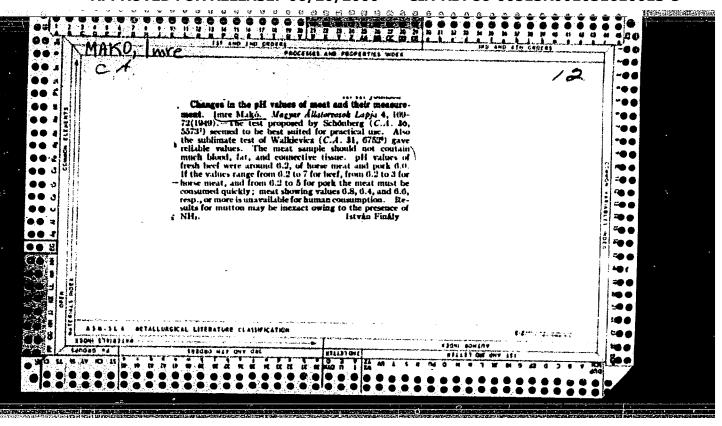
FIAM, B.; KEMENY, T.; MAKO, E.

Effect of thrombin preparations upon tissues. Orv.hetil. 91 no.18: 553-555 30 Ap '50. (CIML 19:2)

1. Pathophysiological Institute, Budapest University.

MAKO, E. 1951
(Pathophysiol Inst. U. of Budapest)
"The Thrombin Cycle."

Acta Physiol (Budapest), 1951, 2/1 suppl (22)
No. Abst. in Exc. Med.



USSR/Agriculture

FD - 1571

Card 1/1

: Pub. 42-3/11

Author

: Redei, D; D'yerffi, B.; Mako, T.; and Barotsi, Ye.

Title

Transformation of winter wheat into spring [wheat]

Periodical

: Izv. AN SSSR. Ser. biol. 5, 46-54, Sep-Oct 1954

Abstract

: Reviews Hungarian literature (1842 to present) in this field and gives results of experimental investigation of possibility of transforming winter wheat into spring wheat by planting seeds of winter wheat (previously sown only in fall) each spring and also sowing each spring thereafter seeds obtained in previous harvests. Two varieties of winter wheat were used: Bankuti 1201 and Al'ton. Experiments lasted from 1948 to 1953. Tables; photographs; sketches.

Eight references, all USSR (1 since 1940).

Institution

: Institute of Genetics, Hungarian Academy of Sciences, Budapest

Submitted

: April 5, 1954

P

HUNGARY / General and Specialized Zoology. Insects. Pests of

Products and Manufactured Articles of Animal and

Vegetable Origin.

Abs Jour

: Ref Zhur - Biologiya, No 16, 1958, No. 73710

Author

: Mako, Imro; Mehes, Cyorgy; Hertelendy, Gyorgy

Inst

: Not given

Title

: Control of Arthropoda with Ethylene Oxide in a Sausage

Factory

Orig Pub

: Magyar allatorv. lapja, 1957, 12, No 4 - 5, 121-124

Abstract

: In order to destroy Tyroglyphus siro mites which had greatly propagated because smoked sausage was kept too long and had produced damage, fumigation with ethylone

oxide was used.

Card 1/1

31

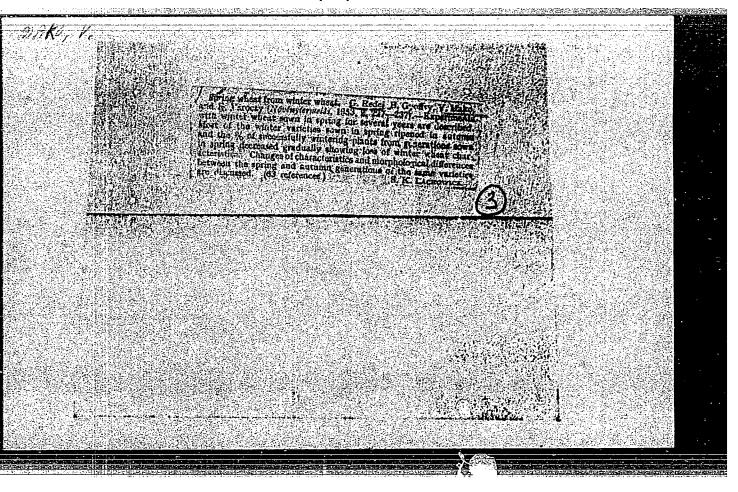
HUNGARY

MEHES, Gyorgy, Dr, director-chief veterinary, MAKO, Imre, Dr, veterinary specialist in charge of the laboratory; Veterinary Control Service of the Meat Industry (director: MEHES, Gyorgy, Dr) (Husipari Allatorvosi Ellenorzo Szolgalat).

"Reconstructions in Slaughterhouses II."

Eudapest, Magyar Allatorvosok Lapja, Vol 22, No 1, Jan 67, pages 35-39.

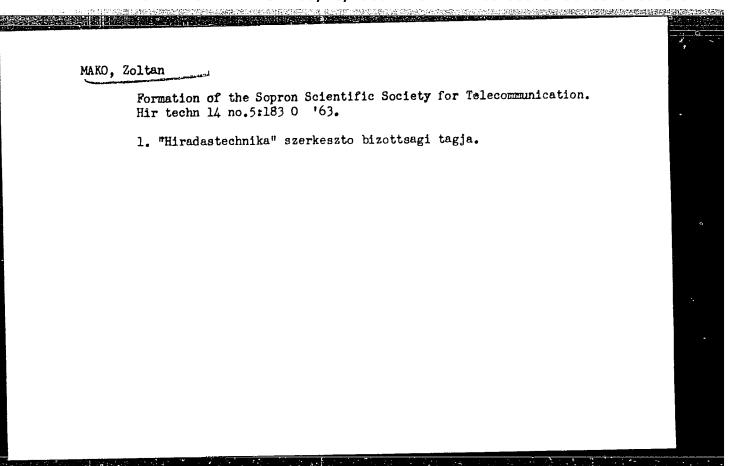
Abstract: [Authors' English summary modified] The water used in slaughterhouses must be of drinking quality. Thermal fountains are advantageous both from the hygienic and economic point of view. Because of infection and a high organic material content, the collection and treatment of waste water is a great problem in the slaughterhouses. Mechanical, chemical or biological methods, or a combination of these must be used to purify it. Good illumination is essential to prevent accidents, for meat control, cleanliness and effective work. In addition to daylight, artificial lighting should be strong and free of disturbing shadows, it must be reliable, uniform and its spectral composition must approach that of daylight. Natural and mechanical ventilation as well as favorable climatic conditions are also important in the interest of the workers' health and of meat control. Automatically adjusted air conditioning equipments have already been introduced in foreign countries. Slaughterhouse workers must of course be subjected to a special examination from the standpoint of public health in accordance with the requirements for such type of work. No references.



TOMASCHEK, Zoltan, a muszaki tudomanyok kandidatusa; MAKO, Zoltan; MAGYAR, Laszlo; VAMBERI, Lorine; KONCZ, Istvan

Properties of the titanium getter and its use in electronic tubes of great specific loading; also, remarks by Z.Mako and others. Muszaki kozl MTA 26 no.1/4:219-220 '60. (EEAI 9:10)

1. Hiradastechnikai Kutato Intezet (for Tomaschek)
(Electron tubes) (Titanium)



KOZLIK, V1.; MOUCKA, J.; MAKOC, Z.

Some pharmacological properties of d-cycloserine and dl-cycloserine.

II. Cesk. farm. 12 no.2:78-84 F '62.

1. Statni ustav pro kontrolu leciv, Praha — Ustav leteckeho zdravotnictvi, Praha.

(MICLOSERINE) (PHARMACOLOGY) (MICE) (RATS)

(GUINEA PIGS) (DOGS) (ELECTROCARDIOGRAPHY)

BORADYNYA, I.V., kand. veter. nauk; MAKODA, N.G., veterinarnyy vrach

Tactile-cervical method of artificial insemination of cows.
Veterinaria 42 no.12:75-77 D '65. (MIRA 19:1)

1. TSentral'naya opytnaya stantsiya iskusstvennogo osemeneniya sel'skokhozyaystvennykh zhivotnykh Ukrainskoy SSR.

MAKODZEBA, I. A. YANITSK, I.Y.V.I.

42441. Uglubleniye pakhotnogo slo. ya pochvy v travopol'nom sevooborote V
SB: Osnovnyye vyvody po polevym opythem 7A 1945-1947 GG (Ukr. Neuch.-Issled. In-T
Zernovogo Khoz-Va Im. kuybysheva. Erast opyt. pole.) Dnepropetrovak, 1948, S.
31-35.

MAKODZERA, Ivan Afans'yevich

[Deep plowing of Chernozem soils] Gluboksia vapashka chernozemnykh pochv. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 107 p.

(Plowing) (Ghernozem soils) (MIRA 10:2)

MAKODZEVA, I.A., kandidat sel'skokhozyaystvennykh nauk; PODOFRIGORA, V.S.

A promising preparation for controlling weeds of the grass family.
Zemledelie 4 no.5:119-120 ky '56. (MLRA 9:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut zernogo khozyaystva. (Herbicides) (Carbanilic acid)

USSR/Weeds and Weed Control.

N

Abs Jour : Ref Zhur Biol., No 18, 1958, 82638

Author : Larionov, D.K., Makodzeba, I.A.

Inst

Title

: Weeds and Their Control.

Orig Pub : Kiiv, Berzhsil'gospvidav, URSR, 1957, 236, stor., il.,

8 r 50 k.

Abstract : No abstract.

Card 1/1

AUTHORS:

Kudzin, Yu. K., Makodzeba, I. A.

20-119-3-60/65

TITLE:

The Content and Dynamics of the Soluble Carbhydrates in the Organs of the Vegetative Propagation of the Pinkred Succory (Acroptilon picris Cam) (Soderzhaniye i dinamika rastvorimykh uglevodov v organakh vegetativnogo razmnozheniya gorchaka

rozovogo (Acroptilon picris CAM))

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 3, pp. 606-608

(USSR)

ABSTRACT:

The pinkred succory is one of the worst species of the weed flora and occurs in several southern and southeastern districts of the USSR (Ref. 1,3). So far there are no effective control measures against it. The applied methods (ref. 2-7) do not always offer satisfying success. For the purpose of improving the control measures the data mentioned in the title ought to be known, which are lacking in publications. The authors carried out their investigations in the region of Kherson in the years 1955-1956 in the following variants: 1) The piece of land uncultivated in the experimental year; 2) Fallow ground with normal cultivation; 3) Fallow ground, on which prospering rosettes of succory were extirpated. The succory in the underground organs accumulates a considerable quantity of carbohydrates

Card 1/3

The Content and Dynamics of the Soluble Carbohydrates in the 20-119-3-60/65 Organs of the Vegetative Propagation of the Pinkred Succory (Acroptilon picris Cam)

which convert into alcohol and hot water extract. Starch is lacking. The quantity and relation of these carbohydrates is not constant and depends on the season. (Table 1). The relative quantity of the soluble carbohydrates increases to a certain degree with deeper penetration of the roots. Table 2 brings data on the distribution in this respect. The results of analyses to a certain degree explain the causes for the succory's tenacity of life, its capability of developing overground organs even after a very deep cutting through of the roots and they give evidence of avery good storage of carbohydrates by the plants during winter. The measures of cultivating the piece of landovergrown with weeds have a great influence on the dynamics of the storage. Without cultivation (figure 1) 2 peaks are clearly distinguished, in which the soluble carbohydrates are stored in the roots: a) before the blossom, b) toward the begin of the hibernation. A systematical exstirpation of the prospering rosettes leads to a rapid decrease of the content of soluble carbohydrates in the roots, not though to their complete exhaustion. Therefore the systematical soil cultivation against the succory can never become

Card 2/3

The Content and Dynamics of the Soluble Carbohydrates in the 20-119-3-60/65 Organs of the Vegetative Propagation of the Pinkred Succory (Acroptibn picris Cam)

effective enough. At the same time it is recognized that even a very intensive soil cultivation lasting for 1 year does not lead to a complete exhaustion of the underground organs of the succory. There are 1 figure, 3 tables, and 7 references all of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V. I. Lenina (All-Union Scientific Research Institute for Corn of the All-Union Academy of Agricultural Sciences imeni

V. I. Lenin)

PRESENTED: December 20, 1957 by A. L. Kursanov, Member, Academy of

Sciences, USSR

SUBMITTED: March 1, 1957

AVAILABLE: Library of Congress

Card 3/3

MAKODZERA, I.A., kand. sel'skokhoz, nauk; PODOPRIGORA, V.S.

New herbicides for controlling weeds on corn fields. Dokl. Akad. sel'khoz. 24 no.4:19-23 '59. (MIRA 12:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy.

Predstavlena chlenom-korrespondentom Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I. Lenina D.S. Filevym.

(Herbicides) (Corn (Maize)—Diseases and pests)

MAKODZEBA, I.A., kand.sel'skokhoz.nauk; FISYUNOV, A.V., aspirant

en de remaine de la ferration de la ferration

Sensitivity of corn to simazine. Zashch.rast.ot vred.i bol. 5 no.7:30 J1 '60. (MIRA 16:1)

1. Vsesoyuznyy institut kukuruzy, g. Dnepropetrovsk. (Corn (Maize)) (Triszine)

PROKAPALO, I.S., kand. sel'khoz. nauk; TREGUBENKO, M.Ya.

[Trehubenko, M.IA.], kard. sel'khoz. nauk; ARTYUKHOV,
Y.K., kand. sel'khoz. rauk; KRYACHKO, P.G.[Kriachko,
P.H.], st. nauchn. sotr.; MKODZERA I.Q. kand. sel'khoz. nauk; SIDENKO, I.O., kand. biol. nauk; SUSIDKO,
P.I., kand. biol. nauk; REPIN, A.M.[Riepin, A.M.], kand.
sel'khoz. nauk; LOGACHOV, M.I.[Lohachov, M.I.], kand.
sel'khoz. nauk; OSTAPOV, V.I., kand. sel'khoz. nauk;
ZAPOROZHCHENKO, O.L., kand. sel'kh.nauk;FLYAGIN,A.D.[Flichin,A.D.],
kand. ekon. nauk; KAMIVETS', I.D., st. nauchn. sotr.;
SKRIPNIK, P.S.[Skrypnyk, P.S.], red.; GULENKO, O.I.
[Hulenko, O.I.], tekhn. red.

[Advanced practices in growing corn] Peredovi metody vyroshchuvannia kukurudzy. 2., perer. i dop. vyd. Kyiv,
Derzhsil'hospvydav, URSR, 1962. 231 p. (MIRA 17:1)

MAKODZEBA, I.A.; FISYUNOV, A.V.

Fecundity of some weeds. Bot. zhur. 47 no.9:1358-1362 3 '62.

(MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy,
Dnepropetrovsk.

(Weeds)

EERE ZOVSKIY, M.Ya., kand.sel'skokhoz.nauk; ABRAMOVA, K.A., aspirantka; MAKODZEBA, I.A., kand.sel'skokhoz.nauk; SHAMKIY, I.F., aspirant

Controlling Acroptilon picris. Zashch. rast. ot vred. i bol. 8 no.9:45-47 S '63. (MIRA 16:10)

1. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya im. Timiryazeva (for Berezovskiy, Abramova). 2. Vsesoyuznyy institut kukuruzy, Dnepropetrovski

MAKODZEBA, I.A., kand. sel'skokhoz. nauk; MORDOVETS, A.A.; SULIMA, A.G., kand. sel'skokhoz. nauk

经出货利用证据 网络阿拉特斯特特拉拉特斯特特斯特特拉尔斯特尔斯特

Hoary cress and its control. Zemledelie 26 no.12:42-43 D '64. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy (for Makodzeba). 2. Genicheskaya opytnaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta kukuruzy (for Mordovets, Sulima).

MAKOGON, A.G. (selo Gnilitsa, Chernigovskoy oblasti)

Apparatus for demonstrating the distillation of petroleum.

Khim. v shkole 13 no.1:45-46 Ja-F '58. (MIRA 10:12)

(bistillation apparatus)

(Fetroleum--Refining)

NEGOVSKIY, N.A., doktor biologicheskikh nauk; MAKOGON, A.M.

Using forms with sterile pollen n breeding sugar beets.
Agrobiologiia no.5:700-704 S-C'63. (MTRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly, Kiyev.

MAKOGÓN, F. YA.

dynamos

Switching in generators by autosynchronization. Rab. energ., 2, no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952. Unclassified.

Semidry pressing of kaolin products. Ogneupory 26 no.1:8-10 '61.

1. Belokamenskiy shanotny, zavod.
(Kaolin)

(Firebrick)

MAKOGON, I.Ye.; ISAYEV, B.P.; IL'ICHEV, V.I.

Redesign of the ejection assembly of a CM 143 press. Ogneupory 30 no.9:43-44 '65. (MIRA 18.9)

1. Belokamenskiy shamotnyy zavod.

- 1. PETROV, S.G., PROF., MAKOCON, L. A., KOCHUNOVSKAYA, T. K.
- 2. USSR (600)
- 4. Eggs-Production
- 7. Increasing hens' egg laying in winter. Ptitsevodstvo no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

KALASHNIKOV, Ya.I.; KRYLOV, V.S.; MAKOGON, L.A.; SAMOLETOV, A.I.; MIKULITSKIY, I.V.

The introduction of an intensive poultry breeding system. Mias. ind. 6SSR 26 no.3:26-29 '55. (MIRA 8:9)

1. Zamestitel' ministra promyshlennosti myasnykh i molochnykh produktov RSFSR (for Kalashnikov). 2. Tekhnoruk Kuntsevskoy ptitsefabriki (for Krylov). 3. Tekhnoruk Glebovskoy ptitsefabriki (for Makogon). 4. Tekhnoruk Tomilinskoy ptitsefabriki (for Samoletov). 5. Direktor Brattsevskoy ptitsefabriki (for Mikulitskiy)

(Poultry industry)

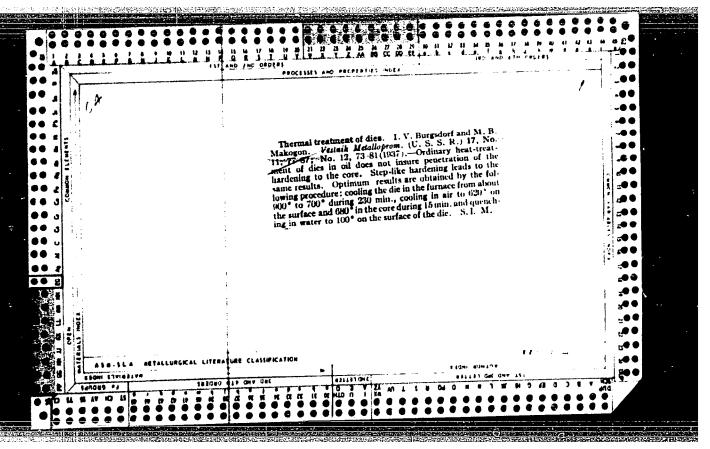
PIGAREV, N.V., kand. sel'skokhozyaystvennykh nauk,; MAKOGON, L.A.;
NIKOLOTOVA, N.V.

Reproductive capacities of hens during their first year of laying. Ptitsevodstvo 8 no. 7:28-32 Jl '58. (MIRA 11:8)

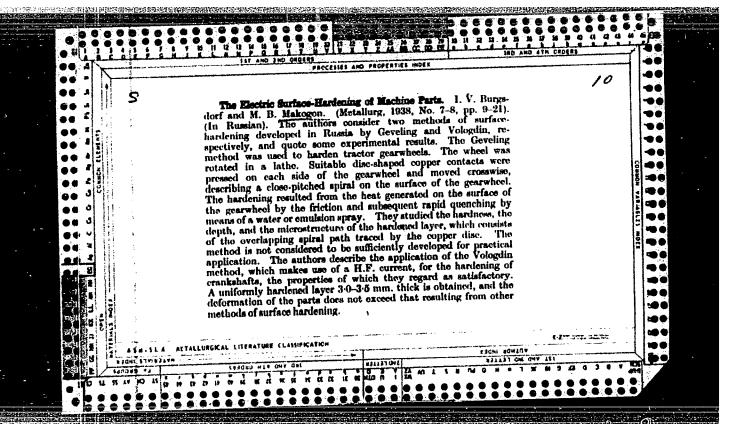
1. Tekhnoruk Glebovskoy ptitæfabriki (for Makogon). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsepererabatyvayushchey promyshlennosti i Glebovskaya ptitsefabrika.

(Poultry breeding)

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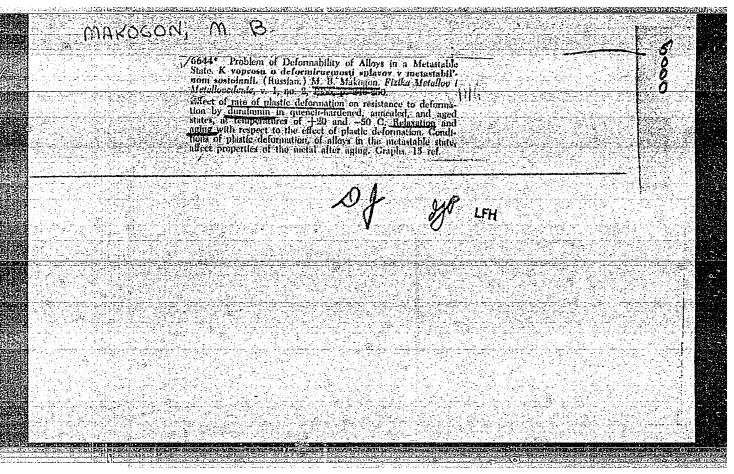
MARCGCH, M. B.

"The Effect of Deformation Velocity on the Mechanical Properties of Alloys." Cand Chem Sci, Tomsk U, Tomsk, 1954. (RZhKhim, No 22, Nov 5%)

Survey of Scientific and Technical Dissertations Defended at USUR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031610013-5



MAKOGON, M.B.

Effect of the conditions of deformation of duralumin in a freshly hardened state on the mechanical properties of duralumin following aging. Fig.met.i metallowed. 1 no.3:546-552 55. (MLRA 9:6)

1.Sibirskiy fiziko-tekhnicheskiy institut.
(Duralumin--Reat treatment)

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 174 (USSR)

Bol'shanina, M.A., Makogon, M.B., Panin, B.Ye. AUTHORS:

Resistance-to-deformation Properties of Copper and its Alloys TITLE:

as a Function of Temperature and Rate of Deformation (Temperaturno-skorostnaya zavisimost' soprotivleniya deformatsii

medi i yeye splavov)

Dokl. 7-y Nauchn. konferentsii, posvyasch. 40-letiyu Velikoy PERIODICAL:

Oktyabr'skoy sots. revolyutsii. Nr 2. Tomsk, Tomskiy un-t,

1957, pp 55-57

Resistance to compressive deformation of Cu and its Ni, Al, ABSTRACT:

and Zn alloys (5, 10, and 15 atom-%) which have been subjected to various degrees of work hardening (with reductions of up to 40%) was studied at different strain rates (6, 0.05, and 0.005 mm/min) at seven different temperatures ranging from 20 to 600°C. The results of the investigation demonstrated the complete applicability of theory of hardening and recovery to a wide range of temperatures and rates of deformation. An anal-

ogy, established for laws governing the deformation of low-

melting metals and Cu alloys, makes it possible to carry out Card 1/2

CIA-RDP86-00513R001031610013-5"

APPROVED FOR RELEASE: 06/20/2000

Resistance-to-deformation Properties of Copper and its Alloys (cont.)

research on physical principles of high-temperature plasticity of metals (as applied to the problem of heat-resistant properties) on modelling materials.

P.N.

1. Copper--Deformation 2. Copper alloys--Deformation

Card 2/2

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031610013-5

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SOV/124-59-1-1028

Translation from: Referativnyy zhurnal. Mekhanika, 1959, Nr 1, p 143 (USSR)

AUTHORS:

Makogon, M.B., Legkova, M.L., Tabatarovich, A.K.

TITLE:

On the Problem of the Correspondence Between the Velocity-Coefficients of the Yield Curves and the Rates of Creep and Relaxation

PERIODICAL: V sb.: Issled. po fiz. tverdogo tela. Moscow, AS USSR, 1957, pp 159-169

ABSTRACT:

Commercial tin and tin of the Ol-grade were employed as test material. Cylindrical casts of a diameter of 16 mm were pressed through a die of a diameter of 4 mm, and the obtained wire was subsequently drawn to a thickness of 1.82 ± 0.02 mm. A part of the specimens was examinated immendiately after the drawing, another part was tempered. The gage length of the specimens was 50 mm. Three series of tests were carried out: 1) Stretching with constant velocities of deformation of 0.06, 2.7 and 27 min⁻¹. 2) Stretching with a constant velocity of 2.7 min⁻¹ up to a determined degree of deformation with a following relaxation of the stress with time. 3) Stretching with a constant velocity up to a determined degree of deformation with a following stretching at a constant load equal to 1.1 - 1.2 of the instantaneous yield point. A qualitative relation between the coeffi-

Card 1/2

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001031610013-5

SOV/124-59-1-1028

On the Problem of the Correspondence Between the Velocity-Coefficients of the Yield

cients of velocity and relaxation and the characteristics of creeping is obtained. It is shown that the coefficients of velocity, the creeping rates and the relaxation characteristics of the deformed and non-tempered tin have higher values than those of the

G.A. Tulyakov

Card 2/2

SOV/124-58-10-11902

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 160 (USSR)

AUTHORS: Makogon, M.B., Panin, V. Ye., Konyushina, G.G., Landa, A.L.,

Sidorova, T.S., Shilina, G.V.

TITLE: Influence of the Strain Conditions During Compression on the State

of Copper - Copper-alloy Solid Solutions (\livaniye us! oviy deformirovaniya pri szhatii na sostoyaniye medi i yeye splavov -

tverdykh rastvorov)

PERIODICAL: Izv. syssh. uchebn. zavedeniy. Fizika, 1957, Nr 1, pp 23-31

ABSTRACT: A comparison is offered of data on the variation in the hardness

of strained alloys during anneal with the values of the rate coef-

ficients of said alloys at various strain temperatures.

From the résumé

Card 1/1

Translation from: Referativnyy zhurnal, Metailurgiya, 1958, Nr 10, p 154 (USSR)

AUTHORS: Makogon, M.B., Panir, V. Ye., Sidorova, T.S., Konyushina, G.G., Landa, A.L., Shilina, G.V.

G.G., Landa, A.L., Shirma, G. V.

TITLE: The Effect of Conditions of Preliminary Cold Hardening on the

Recovery of Cu and its Alloys as a Function of Temperature (Vliyaniye usloviy predvaritel nogo naklepa na temperaturnuyu

zavisimost' vozvrata medi i yeye splavov)

PERIODICAL: Dokl. 7-y Nauchn. konferentsii, posvyashch. 40 letiyu

Velikoy Oktyabr'sk. sots. revolyutsii. Nr 2. Tomsk, Tomskiy

un-t, 1957, pp 57-58

ABSTRACT: Investigations were performed in order to establish how tem-

perature and rate of determation (D) (the degree of D remaining constant) affect the progress of recrystallization curves of Cu and its alloys containing 10 atom-% Ni and Al. It was established that the increase in recrystallization temperature of Cu and its alloys is directly proportional to the degree of D; it is therefore assumed that for each temperature of D there is a corresponding field of D distortions, the temperature stability

Card 1/2 of which increases with increasing temperatures of D. It is

The Effect of Conditions of Preliminary Cold Hardening (cont.)

pointed out that the temperature stability of the cold-hardening of the Cu-base solid solutions investigated is a function of the nature of the allow. Compared with Al, the addition of which tends to reduce the strength of cohesive bonds, introduction of Ni increases the cohesive forces in the Cu lattice and results in a greater rate of increase in temperature stability of the work-hardened regions.

Z. F.

- 1. Copper--Crystallization 2. Copper alloys--Crystallization
- 3. Copper--Temperature factors 4. Copper alloys--Temperature factors

Card 2/2

Translation from: Referativnyy zhurnal, Metallurgiya 1958 Nr 10, p 152 (USSR)

AUTHORS: Makogon, M. B., Panin, V Ye., Kitayeva L. P., Korotayev A. D.

Sukhovarov, V.F., Shcherbakova N.I.

TITLE: The Effect of Annealing and Intermediate High temperature

Deformation on Compression Curves of Copper and its Alloys (Vliyaniye oʻzhiga i promezhutochnoy vysokotemperaturnoy

deformatsii na krivyye szhatiya medi i yeye splavov)

PERIODICAL: Dokl. 7-y Nauchn konferentsii, posvyashch 40 letiyu

Velikov Oktyabr'sk sots revolvutsii Nr 2 Tomsk Tomskiy

un-t, 1957, pp 59 60

ABSTRACT: The effect of plastic deformation (D) on the progress of

recovery processes in Cu and its alloys with Ni (5, 10, 15 atom-%), Al (5, 10, 15 atom-%) and Zn (5 atom-%) was investigated. Mechanical properties of metal which had been subjected to deformation at room temperature were compared after the metal had been annealed as well as subjected to slight deformation under identical temperature conditions. It was

established that application of stress stimulates the recovery

Card 1/2 processes; this is manifested by the fact that mechanical

The Effect of Annealing (cont.)

properties of work-hardened specimens (S) which have been subsequently subjected to mild deformation at elevated temperatures are lower than the properties of S's which have been annealed only at identical temperatures. A drop in secondary reduction curves of S's which have been preliminarily subjected to deformation at room temperature is observed at elevated temperature. The stimulating effect of loading, which becomes greater with increasing temperatures, begins to diminish as the T_p point is approached and, finally, goes down to zero. It is shown that the D of work hardened S at temperatures beyond the recrystallization threshold contributes to complete relief of workhardening stress achieved at room temperature and, at the same time, produces new distortions which cannot be completely relieved during D at the given temperature. Compared with pure Cu, other conditions being equal, the intensity of recovery processes under load is lower in the Cu alloys investigated. As the concentration of Ni is increased and the concentration of Al in the Cu alloy is reduced, the intensity of recovery diminishes. In alloys with relatively small cohesive bonds (Cu-Al), the recovery processes occur more intensively than in the case of alloys in which the cohesive forces are greater (Cu-Ni).

Copper--Heat treatment
 Copper alloys--Heat treatment
 Copper--Mechanical properties

V. N.

Card 2/2

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031610013-5

MAKOGON, M.B.

AUTHOR: Makogon, M. B.

126-2-16/35

TTTLE:

On the character of the dependence of mechanical properties of solid solutions on their concentrations. (O kharaktere zavisimosti mekhanicheskikh svoystv tverdykh rastvorov ot ikh kontsentratsii).

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.2, pp. 318-325 (USSR)

ABSTRACT: The fundamental types of the diagram "state-properties" which are determined by the character of the interaction of the individual components were first established for binary alloys by Kurnakov, N.S. and Zhemchuzhnyy, S.F. (Refs.1 and 2); for systems forming a continuous series of solid solutions the dependence of the above mentioned properties on the composition are expressed by a curve which is convex if viewed from the top, whilst for twophase mixtures the isotherms of these properties are nearly straight lines. In systems with limited solubility the properties of the alloys in the range of the solid solution change with increasing concentration in accordance with monotonously increasing curves. This general character of the "property-composition" curves Card 1/4 was confirmed by numerous authors for many systems of

On the character of the dependence of mechanical properties of 126-2-16/35 solid solutions on their concentrations.

predominantly high melting point alloys but considerable deviations were observed which increase with increasing test temperatures. On the basis of analysis of available experimental data, A. A. Bochvar (Ref.6) arrived at the conclusion that there is no unequivocal relation between the composition and the properties, pointing out the necessity for detailed experimental investigation of the dependence "composition-properties" which should be extended into investigating the more complex problem of "properties-composition-structure-external conditions" (Ref.10). The aim of the here described work was to elucidate the influence of the speed and the degree of deformation on the shape of the "resistance to deformation by compression-composition" curves for a number of high melting point and low melting point alloys forming solid solutions. The author also expresses certain views on the limits of validity of the Kurnakov law in studying the mechanical properties of solid solutions. V. P. Shishokin and his team determined the influence of the deformation speed on the relations between the

Card 2/4 chemical composition and the hardness for 'eutectic type

On the character of the dependence of mechanical properties of solid solutions on their concentrations.

systems (Ref.11), for solid solutions of the system Pb-Hg (Ref.12) and for solid solutions of the systems Pb-Bi, Pb-Sn, Cd-Hg (Ref. 13). The author of this paper investigated high melting point alloys of the system Cu-Ni and low melting point alloys of the systems Pb-Hg and Pb-Bi. The copper-nickel alloys were smelted in a high frequency furnace, homogenized and forged into 10-11 mm dia. rods. The lead alloys were cast into ingots of 22 mm dia. which, after some forging, were extruded through a hole of 7.00 ± 0.01 mm. From both alloys specimens were prepared for compression tests which were annealed under optimum conditions. The Cu-Ni which were anneated under optimum conditions. The Cu-Ni alloys contained 23.9, 44.0, 61.8 and 75.3 at.% nickel and pure copper and pure nickel specimens were also tested. The lead alloys contained 3.2, 10.3, 15.4 and 20.0 at.% Hg and also 3.0, 9.8, 14.5 and 19.6 at.% Bi as well as pure lead. All these alloys belong to the solid solution types. The results are plotted in graphs and entered in tables. The obtained experimental results indicate that the shape of the curves "resistance to deformation-composition" for Card 3/4 low melting point alloys depends to a considerable extent

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031610013-5

BOL'SHANINA, M.A.; MAKOGON, M.B.; PANIN, V.Ye.

Temperature-rate relation in the resistance to deformation of copper and its alloys. Issl. po sharopr. splay. 3:189-205 '58.

(MRA 11: (Copper alloys--Testing) (Deformations (Mechanics)) (Metals at high temperature)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031610013-5"

sov/58-59-5-10712

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 5, pp 119 - 120 (USSR)

AUTHOR:

Makogon, M.B.

Effect of the Rate of Deformation on the Resistivity to Compression of

TITLE:

PERIODICAL:

Some Metallic Solid Solutions Tr. Sibirsk. fiz. tekhn. in-ta, 1958, Nr 36, pp 3 - 20

The article is a qualitative discussion of the limits of applicability

ABSTRACT:

of Kurnakov's rules for determining the composition dependence of the mechanical properties of solid solutions. It is shown that this dependence is determined in the general case by the conditions of mechanical testing, in particular by the rate and degree of deformation. The effect of these conditions is especially noticeable in the case of fusible alloys, in the deformation of which softening processes play an essential role. As a rule, the dynamic coefficient characterizing the degree of the rate dependence drops when a transition is effected from the pure component to its solid solution alloy. The rate coefficients of the intermetallic phases have a still lower value than those of ordinary solid solutions based on the pure components. This can be ex-

Card 1/2

CIA-RDP86-00513R001031610013-5" APPROVED FOR RELEASE: 06/20/2000

SOV/58-59-5-10712

Effect of the Rate of Deformation on the Resistivity to Compression of Some Metallic Solid Solutions

plained by the still greater interaction of various atoms in these phases. The author gives a qualitative explanation of the role that individual alloying admixtures play in the variation of the mechanical properties of Pb for various deformation rates. It turns out that the effect of the admixtures is all the more telling, the less the components being alloyed are chemically related, and the greater the variation in the parameter of the crystal lattice of the base metal when the solid solution is being formed. Indirect evidence for the correctness of the view that plastic deformation exerts a stimulating effect on the aging and dissociation of solid solutions is afforded by the study of the effect of the non-equilibrium condition of the alloys on the shape of the flow curve.

From the author's résumé



Card 2/2

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031610013-5

18(6) AUTHORS:

Makogon, M. B., Panin, V. Ye., Sukhovarov, V. f., 304/20-122-2-15/42

Abramets, L. P., Korotayev, A. D., Shcherbakova, M. A.

TITLE:

On the Rôle of External Stress in the Weakening During a Plastic Deformation (O roli vneshnego napryazheniya v

razuprochnenii pri plasticheskoy deformatsii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 2, pp 219-221

ABSTRACT:

It was interesting experimentally to detect a stimulating influence of external stress on the intensity of recovery immediately during the plastic deformation itself, and to investigate the influence of the nature of the material and of the deformation conditions (velocity, temperature) on the intensity of the recovery. The measurements were carried out on samples of electrolytic copper and their alloys with Ni, Al (5; 10; 15 atomic %) and with Zn (5 atomic %). All these samples (d = 11.00 ± 0.01 mm, h = 7.00 ± 0.01 mm) were deformed by compression up to 30 % at room temperature with an average velocity of 4,3 %/min. The deformations and the tempering were carried out at various temperatures. A figure

Card 1/3

 $$\rm SOV/20-122-2-15/42$$ On the Rôle of External Stress in the Weakening During a Plastic Deformation

shows the curves of the flowing for one of the investigated alloys. According to these curves, the stress weakens the samples so intensely that resistance against deformation is diminished by this deformation. If the temperature of the deformation increases, the decrease of the resistance becomes more noticeable. If other conditions are equal, this decrease is more intense for the alloys of the systems Cu-Al, Cu-Zn than for the alloys of the system Cu-Ni. The curves of the third contraction of the samples tempered after a cold deformation are always higher than the curves of samples which were deformed at the temperature of the first series of samples. The plastic deformation, therefore, caused an additional weakening. The nature of the alloy has no influence on the value of the relaxation coefficient K, if the percentage of the admixture is lower than 5 %. However, for higher percentages of admixture, this influence is well noticeable. The alloys of the system Cu-Al relaxate noticeably more intensely than the corresponding alloys of the system Cu-Ni. The results of this paper are an experimental proof of the weakening caused by the deformation and of the stimulating influence of the external stress on the intensity of this weakening.

Card 2/3

50V/20-122-2-15/42

On the Rôle of External Stress in the Weakening During a Plastic Deformation

Weakening depends on the conditions of the deformation (temperature, velocity) and on the nature of the deformed alloy. There are 2 figures, 1 table, and 14 references, 12 of which

are Soviet.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy nauchno-issledovatel'skiy

institut pri Tomskom gosudarstvennom universitete im. V. V.

Kuybysheva

(Siberian Physical-Technical Scientific Research Institute at

Tomsk State University imeni V. V. Kuybyshev)

PRESENTED:

May 7, 1958, by G. V. Kurdyumov, Academician

SUBMITTED:

April 29, 1958

Card 3/3

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031610013-5

MAKOGON, M.B.; PANIN, V.Ye.; SUKHOVARCV, V.F.

Stimulating effect of straining on softening during the deformation process. Issl.po zharopr.splav. 4:50-57 '59.

(METAL 13:5)

(Metals--Cold working) (Deformations (Mechanics)

s/139/60/000/03/026/045

MEB73/E314

AUTHORS:

Panin, V.Ye and Makogon,

TITLE:

Anomaly of the Temperature-speed Dependence of the

Resistance to Deformation of Aluminium Bronze Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1960, Nr 3, pp 142 - 145 (USSR)

ABSTRACT:

PERIODICAL:

The aim of the work described in this paper was to elucidate the influence of hardening processes on the progress of plastic deformation of aluminium bronze at various temperatures and deformation speeds. Investigations were carried out on an aluminium bronze Cu+ 15.9 at.% Al, which is a solid solution nearing the boundary of solubility. The investigations were carried out at various temperatures using various speeds of compression. The curve of the temperature dependence of the resistance to deformation shows an anomaly, namely, with increasing temperature the resistance to deformation drops slightly at first then increases to a maximum which is followed by a sharp drop. The temperature of the beginning of the

Card1/3

S/139/60/000/03/026/045

Anomaly of the Temperature-speed Dependence of the Resistance to Deformation of Aluminium Bronze

intensive softening depends on the conditions of deformation; increase in the speed of deformation brings about a shift in this temperature towards elevated temperatures, whilst an increase in the degree of deformation brings about a decrease in the observed effect and may even lead to its cessation. In the range of anomalous temperature dependence of the mechanical properties, the deformation is in jumps and there is an anomaly in the dependence of the resistance-to-deformation on the deformation speed. Such anomalous temperature-speed dependence of the resistance-to-deformation was also observed to a lesser extent in the alloy. Cu + 10 at.% Al. There are 3 figures and 13 references, 1 of which is international, 1 English, 1 Japanese (in English) and 10 are Soviet.

Card 2/3

\$/139/60/000/03/026/045

Anomaly of the Temperature-speed Dependance of the Resistance to

Deformation of Aluminium Bronze

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri

Tomskom gosuniversitete imeni Y.V. Kuybysheva

(Siberian Institute of Physics and Technology of Tomsk State University imeni V.V. Kuybyshev)

SUBMITTED:

July 6, 1959

Card 3/3

8/123/62/000/015/004/013 A052/A101

AUTHORS:

Makogon, M. B., Tukhfatulin, A. A.

TITLE:

The effect of the initial state of 3N 437 (EI437) alloy on its mechanical properties under different conditions of deformation as to temperature and rate

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1962, 25, abstract 15A145 (In collection: "Issled. po zharoprochn. splavam". T. 7.

Moscow, AN SSSR, 1961,97 - 105

The character of the effect of rates of deformation at compression TEXT: $(v_1 = 0.005, v_2 = 0.05 \text{ and } v_3 = 6 \text{ mm/min.})$ on mechanical properties of EI437 alloy (yield curves) at 600, 700, 800 - 850 and 900°C in a vacuum (about 10-3 mm Hg) has been established on samples in a hardened and aged state. It is pointed out that the samples aged at 700°C prove to be more strengthened than the samples hardened at deformation temperatures not exceeding the aging temperature. At 800°C and over a preliminary aging at 700°C does not affect practically the mechanical properties, which is explained by an intensive aging of a hardened

Card 1/2

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031610013-5

S/123/62/000/015/004/013

The effect of the initial state of ...

alloy at high temperatures in the process of deformation. After 45 -hour aging at 800°C the mechanical properties decrease considerably, which is ascribed to the decomposition of the solid solution and coagulation.

[Abstracter's note: Complete translation]

Card 2/2

MAKOGON, M.B.; KITAYEVA, L.P.

Study of the kinetics of ordering and some mechanical properties of the Mg_Cd alloy. Ukr. fiz. zhur. 8 no.2:233-238 F 163. (MIRA 16:2)

1. Sibirskiy fiziko-tekhnicheskiy institut AN SSSR, Tomsk. (Magnesium-cadmium alloys)

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031610013-5

18552-63 EWP(q)/EWT(m)/BDS	AFFTC/ASD Pad JD/WB
ACCESSION NR: AP3001695	s/9126/63/015/005/0703/0709
AUTHORS: Sukhovarov, V.F.; Popov, L.Ye; R.P.; Makogon, M. B.	Karavayeva, V.V.; Panova, L.M.; Kharlova,
Makeyotta Ma Da	66
TITLE: Investigation of the atomic redialloy	istribution process in Ni + 10 at.% Mo 6.2
SOURCE: Fizika metallov i metallovedeni	lye, v. 15, no. 5, 1963, 703-709
TOPIC TAGS: atomic redistribution, Ni-M	Mo alloy, nickel-molybdenum alloy
at.% Mo'was measured in studying formati	ctrical resistivity of the alloy Ni + 10 ion of the K-state and its influence on the
nation is the necessary condition for K-	is believed that short-range order for- -state origin. The alloy was a homo- atment of which caused a variation in the
degree of the short-range order. The di affects the activation energy of the fo	ifference between Ni and Mo atomic radii
pring about the formation of K-state. In the showed an uninterrupted increase in the	A continuous heating of the specimen rmal capacity up to 330°C. At this point
ard 1/2	

L 18552-63

ACCESSION NR: AP3001695

a decrease began and lasted to 390° . This phenomenon is explained by formation of the K-state and by its subsequent destruction at 400C where the thermal capacity resumed its increase. The tests showed that formation of K-state increases the magnitude of electrical resistivity. "We express our sincere appreciation to Professor M. A. Bol'shaning for drawing our attention to the Ni-Mo system and to Engineer LeK. Novikova for the hydrogen annealing of the samples". Orig. art has: 5 figures.

ASSCCIATION: Sibirskiy fiziko-tekhnicheskiy nauchno-issledovatel skiy institut (Siberian Physicotechnical Scientific Research Institute)

SUBMITTED: 07Jul62

DATE ACQ: 11Ju163

ENCL: 00

SUB CODE: ML

NO REF SOV: 020

OTHER: 015

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001031610013-5"

BUTKEVICH, L.M.; GORBACHEV, F.Ya.; GRIDNEV, M.P.; MAKOGON, M.B.; PYATNICHUK, G.K.

Apparatus for creep tests of manometer tubular springs. Zav.lab. 29 no.12:1500-1501 '63. (MIRA 17:1)

1. Sibirskiy fiziko-tekhnicheskiy nauchno-issledovatel'skiy institut.

BUTKEVICH, L.M.; MAKOGON, M.B.; OSUKHOVSKIY, V.E.

Effect of external stresses during the annealing of cold-worked L62 brass on its mechanical properties. Fiz. met. i metalloved. 16 no.42583-588 0 '63. (MIRA 16:12)

1. Sibirskiy fiziko-tekhnicheskiy institut.

BOL'SHANINA, M.A.; MAKOGON, M.B.

Effect of short-range order and various concentration inhomogeneities on the mechanical and physical properties of alloys-solid solutions. Izv. vys. ucheb. zav.; fiz. no.5:45-55 164.

(MIRA 17:11)

1. Sibirskiy fiziko-takhnicheskiy institut pri Tomskom gosudaratvennom universitete imeni Kuybysheva.

ENT(1)/ENT(m)/ENP(t)/ENP(b) L 43858-65 LJP(c) D ACCESSION NR: AP4048769 S/0126/64/018/004/0535/0539 AUTHOR: Makogon, M. B.; Tukhfatullin, A. A.; Kitayeva, L. P. TITLE: Investigation of the kinetics of the domain growth in the Mg Cd alloy SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 4, 1964, 535-539 TOPIC TAGS: domain growth; magnesium cadmium alloy, electric conductivi <u>tv. k</u>inetics ABSTRACT: The authors have investigated the kinetics of the domain growth in the Mg3Cd -alloy by x-ray diffraction and by the measurement of electric conductivity. The experiments were conducted at 60-80, and 100 C after the disorder-order transition. A linear relationship between the electrical conductivity and the inverse of the domain size was found (the latter being larger than 100 Å). The time dependence of the domain size is given by the equation $\varepsilon = kt^0.3$ The authors are grateful to L. S. Bushney for help. Orig. art. has: 3 figures, 1 table, and 6 equations. Card 1/2

ACCESSION NR: AP4048769 ASSOCIATION: Sibirskiy fiz	iko-tekhnicheskiv însi	litut im. V. D. Kuznetsova	
(Siberian Physicotechnical In	atītute)		计算是
SUBMITTED: 07Dec63	ENCL: 00	SUB CODE: MM, SS	
NR REF SOV:006	OTHER: 009		
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L 40739-65 EWT(m)/EWP(w)/EWA(d)/EPR/T/EWP(t)/EWP(b)/EWA(c) Ps-4 LJP(c)
ACCESSION NR: AP5005887 JD \$/0020/65/160/003/0582/0585

AUTTORS: Kitayeva, L. P., Makogon, M. B., Kobytev, V. S.

TITLE: Mechanical properties of the ordered alloy Mg 3Cd

SOURCE: AN SSSR. Doklady, v. 160, no. 3, 1965, 582-585

TOPIC TAGS: ordered alloy, magnesium alloy, ultimate strength, yield point, domain size

ABSTRACT: The authors investigated the effect of ordering on the mechanical properties and on the character of deformation in an Mg₃Cd alloy having a hexagonal close packed (hcp) structure. The procedure for preparing the *lloy and the samples was described in detail elsewhere (Fiz. met. i metalloyed. v. 18, no. 5, 1964). The samples were stretched at a rate of 0.23% per minute, and the stretching curve was automatically recorded on photographic paper. To obtain different domain sizes, the samples were quenched from 220° and soaked for vari-

Card 1/3

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ACCESSION NR: AP5005887

1

ous times at 80°, after which they were deformed at room temperature. The domain dimension was determined by x-ray diffraction. Metallographic tests of the sample surfaces were made after 5% deformation on samples that were either fully ordered, quenched from 220°, with domain dimension ~625 Å, and with a degree of order that is at equilibrium at 80°, and samples deformed at temperatures 130° and above. Like other ordered alloys, Mg Cd exhibited an increase in the ultimate yield with decreasing degree of order and a large strengthening coefficient in the ordered state. The ultimate strength decreased with increasing domain size, and the plasticity differed greatly in the ordered and disordered states at room temperature. Explanations are offered for these phenomena. The metallographic investigations have shown that in both the ordered and disordered states coarse slip predominates after 5% deformation. From a comparison of the hardening coefficients and the character of the deformation it is concluded that the main cause of the low value of the hardening coefficient in the disordered state with domain size 625 Å is the pre-

Card 2/3

L 40739-65 ACCESSION NR: AP5005687 sence of mechanical polygonization and tuning along with the This report was presented by G. V. Kurdyumov. Orig. art. has figures. ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut im. V. Kuznetsova (Siberian Physicotechnical Institute) SUBMITTED: 05Aug64 ENCL: 00 SUB CODE: WR REF SOV: 009 OTHER; 011	i: 4
Sence of mechanical polygonization and tuning along with the This report was presented by G. V. Kurdyumov. Orig. art. had igures. SSOCIATIOM: Sibirskiy fiziko-tekhnicheskiy institut im. V. uznetsova (Siberian Physicotechnical Institute) SUBMITTED: 05Aug64 ENCL: 00 SUB CODE:	i: 4
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ACCESSION NR: AP5025321	
	TR/0126/65/020/003/0379/0383 539。22:661。846
AUTHOR: Tukhfatullin, A.A.; Makogon, K. VI.; 5 TITLE: Study of the character of order-	Be: Kitayana 7 B
	ADVAGOR: EPARATAMENTALIAN SERVICE CONTRACTOR OF THE SERVICE CONTRACTOR
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HVG_LGII CHIT : BYG + A S A S LL L L L S T + A S L L L S T L L L L L L L L L L L L L L	TTO MY COURTO OF SHIP OF TOAL APPLIED TO SHIP OF SHIP
consisting of made after annealing a	t 350C for 1 hour followed by
o 130 C, annealing for 72 hours at 130C,	and subsequent cooling to room
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ACCESSION NR: AP5025321

 $S_{\underline{T}} = \sqrt{(T_{\underline{s}}/T_{\underline{u}})_{\underline{S}=S_{\underline{T}}}} \cdot (T_{\underline{s}}/T_{\underline{u}})_{\underline{S}=1},$

Card 2/3

ACCESSION NR: AP5025321 The comparison of obtained data agrand measured resistivities. Orig. s	eed well with the curt, has: 4 figures	orresponding calculated . 3 formulas, and 1 table.	
ASSOCIATION: Sibirskiy fiziko-tekh <u>Institute)</u> SUBMITTED: 18May64/—Sep65	的数据,这是一种自己的对象。		
NO REF SOV: 004	OTHER: 005		

= = = (m)/T/EXP(*)/EXP(b)/EXA(c) ACC NK. AP5027146 UR/0126/65/020/004/0587/0591 AUTHOR: Kitayeva, L. P.; Bushnev, L. S.; Makogon, M. B. ORG: Physicotechnical Institute im. V. D. Kuznetsov (Sibirskiy fiziko-tekhnicheskiy institut) TITLE: Microscopic study of deformation in an Mg Cd alloy SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 4, 1965, 587-591 TOPIC TAGS: crystal deformation, magnesium alloy, cadmium alloy, ABSTRACT: The study was made on an alloy with a composition of magnesium + 25.2 at % cadmium. Samples with a diameter of 1 mm and a calculated length of 50 mm were stretched on a UFR machine at a rate of 0.23%/min. The elongation curve was recorded automatically. For electron microscope investigations, samples were produced by rolling to a thickness of 0.27 mm. After ennealing and deformation by stretching, the samples were thinned down in an electrolyte (methyl alcohol and nitric acid in a 2:1 ratio). The thin foils were examined in a UEMB-100 electron microscope at an Card 1/3 UDC: 539.292;548.4

L 8936-66

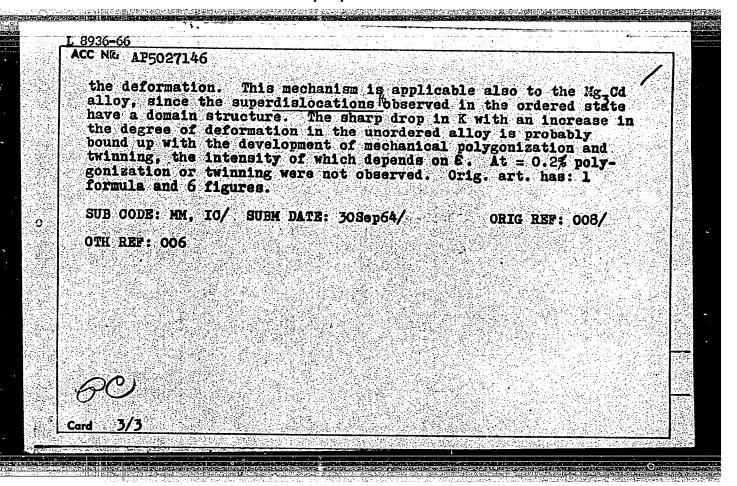
ACC NR. AP5027146

accelerating voltage of 85 kilovolts. The grain size of all the samples was about 20 microns. To obtain an ordered state, the samples were subjected to prolonged heat treatment under the following conditions: holding at 270° for I hour cooling to 170° in the furnace, cooling to 130° at a rate of 10 degrees/hour and holding at 130° for 72 hours, and finally cooling to room temperature at a rate of 5 degrees/hour. The deformation chart was bution after 2-5% deformation. A figure shows the dependence of the strength coefficient K on the degree of deformation for the determined as the difference in the flow stresses with a 1% change in the deformation. At £ = 1%

 $K_1 = \frac{q_1 - q_{0,2}}{0.8},\tag{1}$

where σ_0 , and σ_1 are the flow stresses at = 0.2 and 1%, respectively. The value of σ_0 is taken beyond the yield point. According to the authors, the large coefficient of strain hardening in the ordered alloy is connected with the existence of superdistocations and with a breaking up of the antiphase domains during

Card 2/3



MAKOGON, M. G.; LEGKOVA, M. L.; and TABATAROVICH, A. K.

"Correlation of the Velocity Coefficients of Flow Curves with Creep and Relaxation Rates" p. 159-169, in the book Research in the Physics Solids, Mosocw, Izd-vo AN SSSR, 1957, 277 p. Ed. Bol'shanina, M. A., Tomsk Universitet, Siberskiy fiziko-tekhnicheskiy institut.

Personalities: Vasil'yev, L. I.; Spevak, L. A.; and Kulikova, K., Material studied: tin. There are 4 figures, 2 tables, and 9 references, 8 of which are Soviet.

This collection of articles is meant for metallurgical physicists and for engineers of the metal-waxxayanax working industry. This book contains results of research in the field of failure and plastic deformation of materials, mainly of metals. Problems of cutting, abrasion, friction, and wear of solid materials (metals) are discussed.

MAKOGON, N.S., referent; TEREMENKO, A.K.

New apparatus for cleaning coal and ores (from "Mines," no.5. 1958).

Koks i khim. no.1:60-61 '60. (MIRA 13:6)

(Grenoble, France--Coal preparation--Equipment and supplies)

MAKOGON, N.S.; YEREMENKO, A.K.

Use of petroleum bitumen for briquetting coal fines in the United States (from "Revue de l'Industrie Minerale," no.1, 1960). Ugol'
Ukr. 5 no.2:40 F '61.

(United States—Briquets(Fuel))

(United States—Briquets(Fuel))

MAKOGON, N.S., inzh.

Coal preparation in a heavy medium. Ugol' Ukr. 5 no.12:14-15
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Preparation of fine coals in the U.S.A. Ugol.prom. no.5:9095 S-0 '62.

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(United States-Coal preparation)

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Coal drying by means of vibration (from "Colliery Guardian," May, 1961; "Annales des Mines, "March, 1962).
Ugol' Ukr. 6 no.8:45 Ag '62. (MIRA 15:11)

(Coal drying) (Vibrators)

MAKCKHA, N.S., dotsent

Causes of lethality and infrequent complications following radical surgery on pancreaticoduccenal cancer. Trudy OMI no.54:117-129 '64. (MIRA 18:9)

1. Iz kafedry gospital'ncy khirurgii (zav.- dotsent N.S. Makokha) Omskogo meditsinskogo instituta.

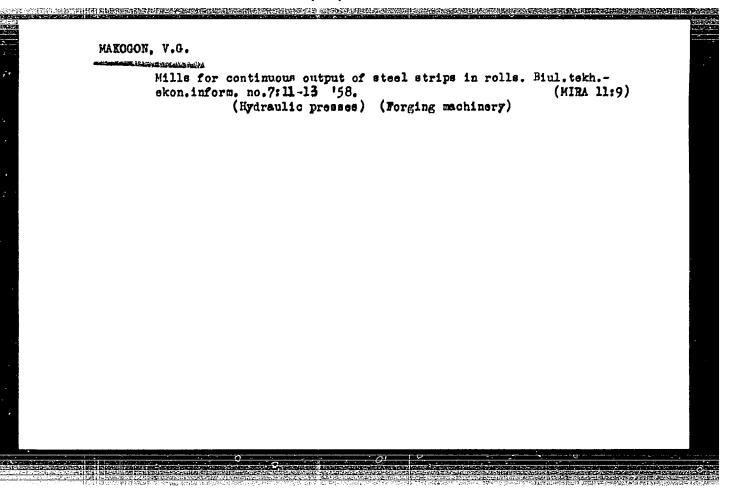
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CHETVERIKOV, A.V., kand.tekhn.nauk; PAVLENKO, N.A., inzh.; MAKOGON, V.F.

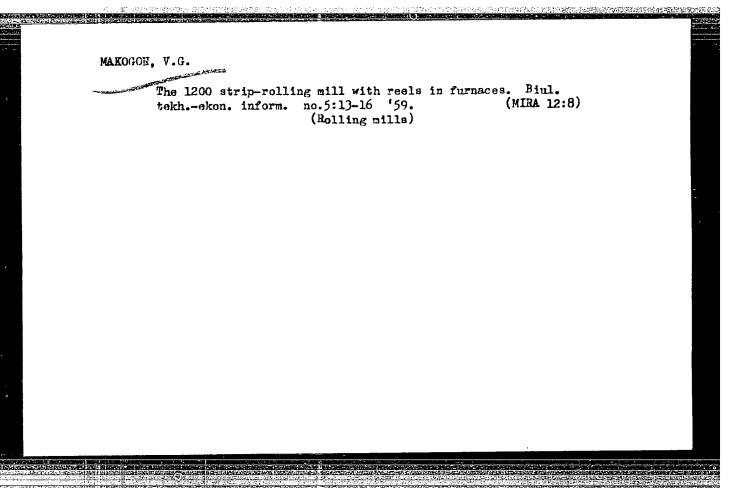
Effect of a protective atmosphere on current efficiency and the quality of the coating in sheet steel tinning from fused salts.

Sbor. trud. TSNIICHM no.34:51-57 '63. (MIRA 17:4)

22440-66 EWT(m)/EWP(t) IJP(c) L 22440-05 ACC NR: AP6006404 SOURCE CODE: UR/0413/66/000/002/0146/0146 AUTHOR: Delimarakiy, Yu. K.; Chetverikov, A. V.; Makogon, V. F. ORG: none TITLE: Electrochemical method of aluminizing metals. Class 48, No. 178257 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 146 TOPIC TAGS: electrolysis, electrochemistry, aluminum plating, aluminum chloride, sodium chloride ABSTRACT: An electrochemical method of aluminizing metals from aluminum chloride- and sodium chloride-base melts is described. order to produce high-quality plating and raise the operational stability of the electroltye, the process is conducted in the presence of ions of other metals (lead, tin, iron, and manganese) introduced by auxiliary anodes with differential current supply and a protective inert atmosphere above the electrolyte surface. The electrolysis is conducted with a current density of 3--5 amps/dm² and temperatures ranging from 150 to 200C. UDC: 621.793.52:669.718:621.357.77 SUB CODE: 11.07 SUBM DATE: 21Sep64/



the 1150)-type mill for cor)-type slabbing mil	timuous hot sheet i 1. Biul.tekhekon.	rolling combined with inform. no.11:17-20 (MIRA 11:12)	
' 58.	(Rolling	mills)	(AIDA II:12)	



MAKOGON, Vladimir Gerasimovich: BUR'YANOV, Viktor Fomich; GOLYATKINA,
A.G., red.izd-va; DOBUZHINSKAYA, L.V., tekhn. red.

[Gentinuous hot rolling mills for wide trip] Nepreryvnye shirokopolosnye stany goriachei prokatki. Moskva, Metallurgizdat, 1963. 216 p.

(Rolling mills)

(Rolling mills)

L 23574-66 EWI(d)/EWI(\mathbf{z})/EWA(d)/EWP(\mathbf{v})/I/EWP(t)/EWP(\mathbf{k})/EWP(\mathbf{h})/EWP(1) SOURCE CODE: UR/0286/65/000/023/0092/0093 ACC NR: AP6002596 AUTHORS: Nosule, L. V.; Makogon, V. C.; Claskov, V. S. ORG: none TITLE: Device for transferring loads, principally hot-rolled rolls, from one conveyer with chains on fixed supporting rollers to another. Class 81, No. 176819 SOURCE: Byulleten isobreteniy i tovarnykh snakov, no. 23, 1965, 92-93 TOPIC TAGS: conveying equipment, conveyer ABSTRACT: This Author Certificate presents a device for transferring loads, principally hot-rolled rolls, from one conveyer with chains on fixed supporting rollers to another. The device is in the form of an intermediate multichain conveyer with independent drive. For stable transfer of rolls without damaging their edges, the chain sprocket wheels of the intermediate conveyer are mounted on rollers which are displaced parallel relative to the rollers of the connected conveyers, all lying in one plane. The chains of the intermediate and connected conveyers alternate and overlap along the length of each other. To provide for UDC: 621.876.1 Card 1/2